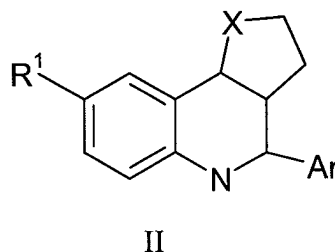
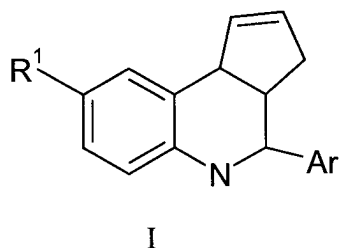


cognition deficit, attention deficit, memory loss, Lewy Body Dementia, Attention Deficit Hyperactivity Disorder, anxiety, schizophrenia, mania, manic depression, Parkinson's disease, Huntington's disease, Tourette's syndrome, a neurodegenerative disorder in which there is loss of cholinergic synapse, jetlag, nicotine addiction, pain, ulcerative colitis or irritable bowel syndrome.

Claim 3 (withdrawn) A pharmaceutical composition comprising a compound according to Formula I or Formula II



wherein:

R^1 is -OH, $-N(R^2)_2$, $-NR^2-SO_2-R^2$, $-SO_2-N(R^2)_2$, $-CON(R^2)_2$, or $-NR^2COR^2$ where R^2 at each occurrence is independently selected from hydrogen, C_{1-4} alkyl, halogenated C_{1-4} alkyl, aryl or heteroaryl where any alkyl, halogenated-alkyl, aryl or heteroaryl moiety is substituted with 0, 1, 2 or 3 R^3 moieties;

X is O, S or CH_2 ;

Ar is a moiety selected from furyl, pyridyl, thienyl, phenyl or naphthyl, said moiety having 0, 1, 2, 3 or more R^3 substituents where R^3 is at each occurrence independently selected from hydrogen, halogen, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, OC_{1-4} alkyl, NH_2 , CO_2H , CO_2C_{1-4} alkyl, CN, NO_2 , and CF_3 ;

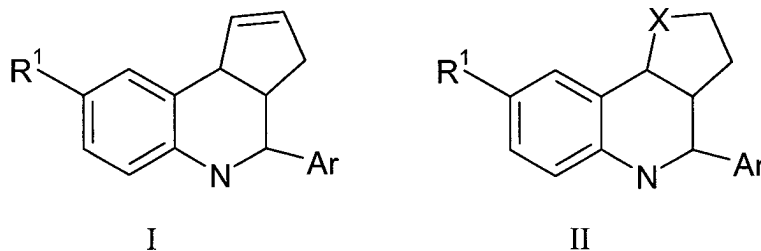
or a diastereoisomer, enantiomer or pharmaceutically-acceptable salt thereof, together with at least one pharmaceutically-acceptable diluent or carrier.

Claim 4 (withdrawn) The pharmaceutical composition according to Claim 3, in addition comprising a nicotinic receptor agonist.

Claim 5 (withdrawn) A method of treatment or prophylaxis of Alzheimer's disease, learning deficit, cognition deficit, attention deficit, memory loss, Lewy Body Dementia, Attention Deficit Hyperactivity Disorder, anxiety, schizophrenia, mania, manic depression, Parkinson's disease, Huntington's disease, Tourette's syndrome, a neurodegenerative disorder in which there is loss of cholinergic synapse, jetlag, nicotine addiction, pain, ulcerative colitis or irritable bowel syndrome comprising administering a therapeutically-effective amount of a pharmaceutical composition according to Claim 3.

Claim 6 (cancelled).

Claim 7 (currently amended) A compound of Formula I or Formula II:



wherein:

R¹ is NR²-SO₂-R² or -SO₂-N(R²)₂ where R² at each occurrence is independently selected from hydrogen, C₁₋₄alkyl, halogenatedC₁₋₄alkyl, aryl or heteroaryl where any alkyl, halogenated-alkyl, aryl or heteroaryl moiety is substituted with 0, 1, 2 or 3 R³ moieties;

X is O, S or CH₂;

Ar is a moiety selected from furyl, pyridyl, thienyl, phenyl or naphthyl, said moiety having 0, 1, 2, 3 or more R³ substituents where R³ is at each occurrence independently selected from hydrogen, halogen, C₁₋₄alkyl, C₂₋₄alkenyl, C₂₋₄alkynyl, OC₁₋₄alkyl, NH₂, CO₂H, CO₂C₁₋₄alkyl, CN, NO₂, and CF₃;

or a diastereoisomer, enantiomer or pharmaceutically-acceptable salt thereof, with the proviso that said compound is not 4-(4-fluorophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[*c*]quinoline-8-sulfonamide.

Claim 8 (currently amended) A compound according to Claim 7, wherein:

R^1 is $-\text{SO}_2-\text{N}(\text{R}^2)_2$ where R^2 at each occurrence is independently selected from hydrogen, C_{1-4} alkyl, halogenated C_{1-4} alkyl, aryl or heteroaryl where any alkyl, halogenated-alkyl, aryl or heteroaryl moiety is substituted with 0, 1, 2 or 3 R^3 moieties;

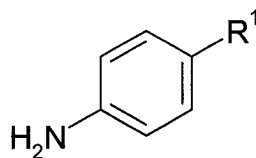
~~X is O, S or CH_2 ;~~

Ar is a moiety selected from furyl, pyridyl, thienyl, phenyl or naphthyl, said moiety having 0, 1, 2, 3 or more R^3 substituents where R^3 is at each occurrence independently selected from hydrogen, halogen, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, OC_{1-4} alkyl, NH_2 , CO_2H , $\text{CO}_2\text{C}_{1-4}$ alkyl, CN, NO_2 , and CF_3 and,
when said compound is a compound of formula II X is O, S or CH_2 .

Claim 9 (currently amended) A compound according to claim 7, said compound being:

4-(2-methylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(4-methylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(3,4,5-trimethoxyphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(2-methyl-4,5-dimethoxyphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(3,5-dimethoxyphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(4-*tert*-butylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(2-naphthyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(4-fluorophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
8-methyl-4-(4-methylphenyl)-2,3,3a,4,5,9b-hexahydro-furo[3,2-c]quinoline;
(3aR,4S,9bS)-8-methyl-4-naphthalen-2-yl-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline;
(3aS,4R,9bR)-8-methyl-4-naphthalen-2-yl-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline;
(3aR,4S,9bS)-4-(4-methylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
(3aS,4R,9bR)-8-methyl-4-(4-methylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;

a 4-aminobenzenesulfonamide of the following formula



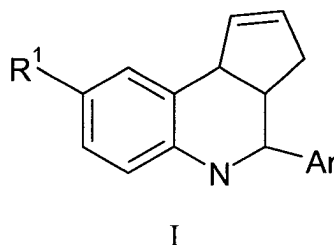
and cyclopentadiene or a compound of the following formula
in acetonitrile and stirring overnight;



neutralizing, extracting, concentrating and purifying to afford a quinoline of Formula I or
Formula II.

Claim 11 (currently amended)

A compound of Formula I:



wherein:

R^1 is $NR^2-SO_2-R^2$ or $-SO_2-N(R^2)_2$ where R^2 at each occurrence is independently selected from hydrogen, C_{1-4} alkyl, halogenated C_{1-4} alkyl, aryl or heteroaryl where any alkyl, halogenated-alkyl, aryl or heteroaryl moiety is substituted with 0, 1, 2 or 3 R^3 moieties;

Ar is a moiety selected from furyl, pyridyl, thienyl, phenyl or naphthyl, said moiety having 0, 1, 2, 3 or more R^3 substituents where R^3 is at each occurrence independently selected from hydrogen, halogen, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, OC_{1-4} alkyl, NH_2 , CO_2H , CO_2C_{1-4} alkyl, CN, NO_2 , and CF_3 ;

or a diastereoisomer, enantiomer or pharmaceutically-acceptable salt thereof, with the proviso that said compound is not 4-(4-fluorophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide.

Claim 12 (previously presented)

A compound according to Claim 7, wherein:

R^1 is $-SO_2-N(R^2)_2$ where R^2 at each occurrence is independently selected from hydrogen, C_{1-4} alkyl, halogenated C_{1-4} alkyl, aryl or heteroaryl where any alkyl, halogenated-alkyl, aryl or heteroaryl moiety is substituted with 0, 1, 2 or 3 R^3 moieties;

Ar is a moiety selected from furyl, pyridyl, thienyl, phenyl or naphthyl, said moiety having 0, 1, 2 or 3 R^3 substituents where R^3 is at each occurrence independently selected from hydrogen, halogen, C_{1-4} alkyl, C_{2-4} alkenyl, C_{2-4} alkynyl, OC_{1-4} alkyl, NH_2 , CO_2H , CO_2C_{1-4} alkyl, CN, NO_2 , and CF_3 .

Claim 13 (currently amended) A compound according to claim 11, said compound being:
4-(2-methylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(4-methylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(3,4,5-trimethoxyphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(2-methyl-4,5-dimethoxyphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(3,5-dimethoxyphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;
4-(4-*tert*-butylphenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide[[[;]], or
4-(2-naphthyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide, ~~or~~
~~4-(4-fluorophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinoline-8-sulfonamide;~~
or a pharmaceutically-acceptable salt thereof.

Claim 14 (withdrawn) A pharmaceutical composition comprising a compound according to claim 11 or a diastereoisomer, enantiomer or pharmaceutically-acceptable salt thereof, together with at least one pharmaceutically-acceptable diluent or carrier.